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CHRISTIE, PARKER & HALE, LLP			YIMAM, HARUN M	
PO BOX 7068 PASADENA, CA 91109-7068			ART UNIT	PAPER NUMBER
ŕ			2611	
			DATE MAILED: 05/12/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/840,497	BARONE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Harun M. Yimam	2611				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address /- Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be within the statutory minimum of thirty (30) or ill apply and will expire SIX (6) MONTHS for cause the application to become ABANDO	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).				
Status						
 Responsive to communication(s) filed on <u>23 April 2001</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
4) ☐ Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-28 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	*				
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the examine Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is	see 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applic rity documents have been rece ı (PCT Rule 17.2(a)).	ation No ived in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date see Office Action.	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:					

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 07/16/2001, 01/04/2002, and 02/07/2002 have been considered by the examiner.

Specification

2. The specification is objected to because of the following informalities: "in such as way" on page 3, line 17 should be changed to "in such a way".

Appropriate correction is required.

Claim Objections

3. Claim 9 is objected to because of the following informalities: "closed to" in line 2 should be changed to "close to".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the

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applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-11, 17-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Bertram (US 2002/0064177).

Considering claim 1, Bertram discloses an interactive television system (paragraph 0058, lines 4-13) comprising: a first input for receiving a first data stream; a second input for receiving a second data stream (Tin1 and Tin2 in figure 6--paragraph 0044, lines 1-5); the first data stream having a higher priority than the second data stream (the priority is predefined: merging two data streams by inserting a portion of data from the second data stream into a first data stream); and a processing unit (610 in figure 6—paragraph 0044, lines 5-8, which can be used interchangeably with the processing unit—470 of figure 4—paragraph 0043, lines 5-10) coupled to the first input and the second input, characterized in that the processing unit (470 of figure 4) creates a gap in the first data stream (Tint) for inserting at least a portion of data carried by the second data stream (R) (470 in figure 4 creates a gap by detecting a null packet to insert a portion of data carried by the second data stream—R into the first data stream—Tin1: the needed gap is a null packet for merging the two data streams paragraph 0038, lines 1-16), the gap being selected in a location in the first data stream so as to allow the data carried by the second stream to be displayed as close to a desired time as possible without disrupting display of data carried by the first data stream (paragraph 0009, lines 12-17 and paragraph 0038, lines 13-16).

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As for claim 2, Bertram discloses that the data carried by the first data stream is closed caption data (the transport stream, which is the first data stream—T_{IN1} in figure 6, includes packets associated with a television program including closed caption data—paragraph 0009, lines 12-14 and paragraph 0028, lines 6-9).

With regards to claim 3, Bertram discloses that the data carried by the second data stream is interactive television data including interactive content (the program stream, which is the second data stream—T_{IN2} in figure 6, can be interactively controlled by a user and therefore includes interactive content—paragraph 0058, lines 4-13).

Regarding claim 4, Bertram discloses that the portion of data carried by the second data stream includes a reveal command (the program stream can be interactively controlled by a user using commands and therefore inherently includes reveal commands—paragraph 0058, lines 9-13).

Considering claim 5, Bertram discloses an interactive television system (paragraph 0058, lines 4-13) comprising: a first input for receiving a first data stream; a second input for receiving a second data stream (T_{IN1} and T_{IN2} in figure 6--paragraph 0045, lines 1-7); and a processing unit (610 in figure 6--paragraph 0044, lines 5-8) coupled to the first input and the second input, the processing unit including logic for: creating a gap in the first data stream (T_{IN1}) for inserting at least a portion of data

carried by the second data stream (R) (470 in figure 4 creates a gap by detecting a null packet to insert a portion of data carried by the second data stream—R into the first data stream—Tin1: the needed gap is a null packet for merging the two data streams—paragraph 0038, lines 1-16); inserting a first portion of the plurality of second data units into the created gap (paragraph 0038, lines 1-16); detecting another gap in the first data stream; and electronically inserting a second portion of the plurality of second data units into the detected gap (paragraph 0012, lines 13-16).

As for claim 6, Bertram discloses that the plurality of the first data units are closed caption data (the transport stream, which is the first data stream—T_{IN1} in figure 6, includes packets associated with a television program including closed caption data—paragraph 0009, lines 12-14 and paragraph 0028, lines 6-9).

With regards to claim 7, Bertram discloses that the plurality of the second data units are interactive television data including interactive content (the program stream, which is the second data stream—T_{IN2} in figure 6, can be interactively controlled by a user and therefore includes interactive content—paragraph 0058, lines 4-13).

Regarding claim 8, Bertram discloses that the created and detected gaps are time slots in a television signal containing no data units (Bertram discloses that the controllers (processing units) of figure 4 and figure 6 may be interchanged. Therefore,

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the created and detected gaps are NULL packets assigned to certain time slots containing no data—paragraph 0034, lines 6-11).

Considering claim 9, Bertram discloses that the created gap is as close to a desired reveal time as possible (paragraph 0038, lines 13-15).

As for claim 10, Bertram discloses that the portion of data carried by the second data stream includes a reveal command (the program stream can be interactively controlled by a user using commands and therefore inherently includes reveal commands—paragraph 0058, lines 9-13).

With regards to claim 11, Bertram discloses that the two first data units are payload data (payload data in an MPEG packet is inherent because it is the nature of a packet to have a header and a payload).

Regarding claim 17, Bertram discloses an interactive television system (paragraph 0058, lines 4-13), a method for merging a first data stream having a plurality of first data units with a second data stream having a plurality of second data units (Tin1 and Tin2 in figure 6--paragraph 0045, lines 1-7 and paragraph 0048, lines 7-14) for transmitting in a television signal, the first data stream having a higher priority than the second data stream (the priority is predefined: merging two data streams by inserting a portion of data from the second data stream into a first data stream), the

method comprising the steps of: creating a gap in the first data stream (TIN1) for inserting at least a portion of data carried by the second data stream (R) (470 in figure 4 creates a gap by detecting a null packet to insert a portion of data carried by the second data stream—R into the first data stream—TIN1: the needed gap is a null packet for merging the two data streams—paragraph 0038, lines 1-16); inserting a first portion of the plurality of second data units into the created gap (paragraph 0038, lines 1-16); detecting another gap in the first data stream; and electronically inserting a second portion of the plurality of second data units into the detected gap (paragraph 0012, lines 13-16).

Considering claim 18, Bertram discloses that the plurality of the first data units are closed caption data (the transport stream, which is the first data stream—Tin1 in figure 6, includes packets associated with a television program including closed caption data—paragraph 0009, lines 12-14 and paragraph 0028, lines 6-9).

As for claim 19, Bertram discloses that the plurality of the second data units are interactive television data including interactive content (the program stream, which is the second data stream—T_{IN2} in figure 6, can be interactively controlled by a user and therefore includes interactive content—paragraph 0058, lines 4-13).

With regards to claim 20, Bertram discloses that the created and detected gaps are time slots in a television signal containing no data units (Bertram discloses that the

controllers (processing units) of figure 4 and figure 6 may be interchanged. Therefore, the created and detected gaps are NULL packets assigned to certain time slots containing no data—paragraph 0034, lines 6-11).

Regarding claim 21, Bertram discloses that the created gap is as close to a desired reveal time as possible (paragraph 0038, lines 13-15).

Considering claim 22, Bertram discloses that the portion of data carried by the second data stream includes a reveal command (the program stream can be interactively controlled by a user using commands and therefore inherently includes reveal commands—paragraph 0058, lines 9-13).

As for claim 23, Bertram discloses that the two first data units are payload data (payload data in an MPEG packet is inherent because it is the nature of a packet to have a header and a payload).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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7. Claims 12-16, and 24-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bertram (US 2002/0064177) and Bauchot (US 6,141,336).

Considering claim 12, Bertram discloses an interactive television system (paragraph 0058, lines 4-13) comprising: a first input for receiving a first data stream; a second input for receiving a second data stream (TIN1 and TIN2 in figure 6--paragraph 0045, lines 1-7); and a processing unit (610 in figure 6--paragraph 0044, lines 5-8) coupled to the first input and the second input.

Bertram fails to disclose that the processing unit includes logic for: identifying time slots assigned to the plurality of first data units in the first data stream; reassigning a portion of the plurality of first data units assigned to particular time slots to earlier time slots; and assigning at least a portion of the plurality of second data units in the second data stream to the particular time slots.

In analogous art, Bauchot discloses a processing unit (master scheduler—29 in figure 1) including logic for: identifying time slots assigned to the plurality of first data units in the first data stream (column 5, lines 32-37); reassigning a portion of the plurality of first data units assigned to particular time slots to earlier time slots; and assigning at least a portion of the plurality of second data units in the second data stream to the particular time slots (see figure 5—time slots are identified and a portion of the plurality of the first data units, "X X", are shifted left: reassigned to earlier time

slots, and a new cell, " * ", and an "overhead": a portion of the plurality of the second data units, are assigned to the particular time slots).

It would have been obvious to one of ordinary skill in the art to modify Bertram's system to include a reassignment of a portion of data, as taught by Bauchot, for the benefit of allocating cells of data to particular time slots according to their transmission priority (column 7, lines 18-32).

Claims 13 and 25 are met by Bertram and Bauchot. In particular, Bertram discloses that the plurality of the first data units are closed caption data (the transport stream, which is the first data stream—T_{IN1} in figure 6, includes packets associated with a television program including closed caption data—paragraph 0009, lines 12-14 and paragraph 0028, lines 6-9).

Claims 14 and 26 are met by Bertram and Bauchot. In particular, Bertram discloses that the plurality of the second data units are interactive television data including interactive content (the program stream, which is the second data stream— Tinz in figure 6, can be interactively controlled by a user and therefore includes interactive content—paragraph 0058, lines 4-13).

Claims 15 and 27 are met by Bertram and Bauchot. In particular, Bertram discloses that the portion of data carried by the second data stream includes a reveal

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command (the program stream can be interactively controlled by a user using commands and therefore inherently includes reveal commands—paragraph 0058, lines 9-13).

Claims 16 and 28 are met by Bertram and Bauchot. In particular, Bertram discloses that the two first data units are payload data (payload data in an MPEG packet is inherent because it is the nature of a packet to have a header and a payload).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harun M. Yimam whose telephone number is 571-272-7260. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Grant can be reached on 571-272-7294. The fax phone number for the organization where this application or proceeding is assigned is 571-272-6000.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HMY

PRIMARY EXAMINER